



# **Phoenix-Goodyear Airport Superfund Site Overview: North and South Areas**

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CAG Meeting

City of Goodyear Justice Facility

Goodyear, AZ



## Tonight's Topic

- Area Between the Sites Study
  - PGAN
  - PGAS
- Questions & Answers



- Objectives of the Data Evaluation
- Background
- Findings
- Data Gaps and Next Steps



The overall objectives of this study are:

- ☐ Define the boundaries of Subunit A & C TCE plumes;
- ☐ Define the boundaries of Subunit A PCE plume;



To accomplish these objectives, the following effort was made:

- ☐ Summarize the water quality information from the recent groundwater investigations;
- ☐ Evaluate hydrogeological information based on recent and historical groundwater investigations;
- ☐ Evaluate relevant historical water quality data;



- PGAN

- ☐ Performed additional investigation in 2015
- ☐ Installed 13 monitoring wells and 3 soil borings
- ☐ Drilled with either percussion hammer or a sonic rig
- ☐ High resolution lithological logs developed
- ☐ Depth-specific groundwater analytical data were obtained at a 20 feet or shorter interval

- PGAS

- ☐ 2015 Building 6 investigation
- ☐ Installed 4 monitoring wells and 1 soil boring
- ☐ Installed 2 Subunit C monitoring wells in 2016 to define boundaries of the Northern Subunit C TCE plume
- ☐ Drilled with a sonic rig
- ☐ High resolution lithological logs developed
- ☐ Depth-specific groundwater analytical data were obtained at a 20 feet or shorter interval



- Geochemical and isotope analysis from a select set of groundwater wells from the three sites;
- Concurrent quarterly water level measurement and data sharing.



- Subunit A TCE Plume
  - PGAN plume is defined by newly installed monitoring wells & soil borings
  - PGAS is also defined by existing and new wells
  - The divide between the two Subunit A plumes is generally along Yuma Road
- The PGAN Southeast Area Subunit A TCE Plume
  - Originated from the accidental injection of untreated water in the MTS injection well field





- Vertical Distribution of TCE/Perchlorate
  - The northern 5 ug/L boundary of the PGAS northern Subunit C TCE plume is likely located between GMW-37UC and EPA MW-66A, although the TCE concentration at depths below 200 feet bgs is not currently known.
  - The exact depth of the bottom of Subunit B near EPA MW-66A needs further evaluation.

# Data Gaps and Next Steps



- Further evaluation of new and existing data is ongoing
- Assess the need for additional Subunit C monitoring wells, if any, as the vertical extent is undefined
- Evaluation of the top and bottom of Subunit B required

# Data Gaps and Next Steps (cont'd)



- The PGAN team is developing a containment and capture work plan to address the contamination for the PGAN Subunit A TCE plume between the MTS injection field and Yuma Road.
- The PGAS team is considering groundwater remedy optimization for their northern Subunit C plume.



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[http://legacy.azdeq.gov/environ/waste/sps/Phoenix-Goodyear\\_Airport\\_North.html](http://legacy.azdeq.gov/environ/waste/sps/Phoenix-Goodyear_Airport_North.html)

[http://legacy.azdeq.gov/environ/waste/sps/Phoenix-Goodyear\\_Airport\\_South.html](http://legacy.azdeq.gov/environ/waste/sps/Phoenix-Goodyear_Airport_South.html)